SONY®

Color Video Monitors

PVM-8045Q/8042Q/8040 PVM-5041Q











he pursuit of excellence in both picture performance and operational features has always been key to the success of Sony professional monitors. The Sony 8-inch* PVM-8045Q, 8042Q, 8040 and the 5-inch* PVM-5041Q Video Monitors incorporate this concept in their design and embody the outstanding reliability and superb picture quality that are essential in professional image display devices.

With models that offer a range of features, these new additions to the PVM Series offer the flexibility that matches a broad range of requirements.

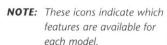
The PVM-8045Q is a picture evaluation monitor incorporating an HR (High Resolution) Trinitron® CRT that provides an excellent center resolution of 450 TV lines. The PVM-8042Q and 5041Q are suitable for use as functional monitors in multi-purpose applications. The PVM-8045Q, 8042Q and 5041Q are equipped with a component (Y/R-Y/B-Y or RGB) input facility and can be operated on AC and DC power supplies for ENG/EFP applications. They can also accept both 4:3 and 16:9 aspect ratio signals. Alternatively, for basic 4:3 monitoring, the PVM-8040 has composite video and Y/C inputs. These four monitors are also suited for studio installation with their rack mounting option. So whether the application is picture evaluation or basic video monitoring, in the studio or on location, this full line of compact monitors includes a model to meet your needs.

*Viewable area, measured diagonally

Features







High Quality Picture

High Resolution



The PVM-8045Q incorporates a HR (High Resolution) Trinitron CRT which provides a high horizontal resolution of 450 TV lines.

Stable Color Reproduction







Black level stability is a very significant parameter in professional monitoring because of its importance in providing stable, accurate color reproduction. To achieve this stability, all these monitors have a beam current feedback circuit. This stabilizes

the CRT drive by checking the cathode current at low-light signal levels. This effectively corrects black level drift, giving stable color reproduction over a long period of time and compensating for changes in CRT characteristics.

Comb Filter for NTSC





The comb filter improves luminance/chrominance separation which reduces cross color interference and produces high resolution.

Input Facilities

Component (Y/R-Y/B-Y or RGB) Input





To maximize operational convenience and versatility, a component (Y/R-Y/B-Y or RGB) 5041 input is included, enabling the direct connection of equipment such as a Camera Control Unit (CCU) or a Betacam® VTR. In addition, the use of component signals produce a high picture quality for evaluation applications.

Y/C Input





In addition to composite inputs, a Y/C input is also provided so that luminance/chrominance video signals can be accepted, minimizing cross color/dot interference and realizes high quality video pictures.

External Sync







These monitors can accept external sync signal for synchronization with other equipment. The external sync can be set so that it will automatically switch according to the input selected.

Convenient Operational Features

4:3/16:9 Operation







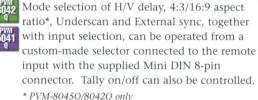
The picture aspect ratio can be switched between 4:3 and 16:9, depending on the input signal. On the PVM-8045Q/8042Q, the "16:9" switch is located on the front panel. On the PVM-5041Q*, aspect ratio is selected with the slide switch mounted on the rear panel.

* 16:9 aspect images are available only in the underscan

Wired Remote Control Capability



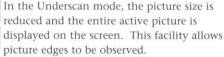




Underscan Switch







AC/DC* Operation







As well as operating from an AC power source, these monitors can be also powered from a 12 V DC source for field operation. The use of an optional DC-L10 Battery Adaptor utilizes the same Lithium-ion batteries that power Sony camcorders. The monitors can also be optionally operated from one or two internal NP-1B Battery Packs internally or an external BP-90A Battery Pack with a DC-210 Battery Adaptor.

* The monitors are not equipped with battery chargers. To charge batteries, an appropriate battery charger for each battery type must be used.

H/V Delay





With the H/V delay mode, both the horizontal and the vertical blanking areas can be displayed simultaneously for inspection of horizontal and vertical syncs.

Manual Degauss Switch





Manual degauss is available by pressing the "DEGAUSS" switch on the front panel.

Blue Only Mode





The Blue Only mode monochrome display allows easy VTR noise inspection and chroma adjustment.

Bias/Gain Control



Bias and Gain controls are provided on the front panel. Fine adjustment of white balance can be easily made from the front of the monitor while observing the screen.

Features

Additional Features

EIA Standard Rack Mountable

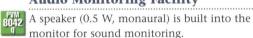


Up to two 8-inch monitors* or three PVM-5041Q models* can be mounted side by 5041 side into an EIA standard rack with the optional MB-507 rack mounting bracket. Any empty spaces can be covered with optional blank panels.

* Exclusive



Audio Monitoring Facility



High Durability





The heavy-duty construction of these monitors allows operation even under adverse conditions, with the metal cabinet minimizing electromagnetic interference between adjacent monitors. Whatever the application and situation, these rugged monitors can be relied on to provide a stable picture display.

Worldwide TV Standards





Operation is fully compatible with the three major TV standards; NTSC, PAL and SECAM. 5041 NTSC_{4.43} can also be reproduced.

Carrying Handle

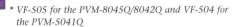


With their carrying handles, these monitors can be carried to any location.

Monitor ENG Kit



The optional ENG kit* contains a monitor hood and cord reel for operational convenience in the







Control Panel



PVM-8045Q/PVM-8042Q



PVM-8040



PVM-5041Q

Optional Accessories



Monitor ENG Kit (Monitor hood and cord reel) for PVM-5041Q

VF-504

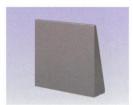


Monitor ENG Kit (Monitor hood and cord reel) for PVM-8045Q/8042Q VF-505

Rack Mounting Bracket MB-507

Blank Panel for PVM-5041Q

MB-508



Blank Panel for PVM-8045Q/8042Q/8040 MB-509



Car Battery Cord DCC-XLR4



Rechargeable Lithium-ion Battery Pack

BP-L90A



Rechargeable Lithium-ion Battery Pack BP-L60A

Rechargeable Battery Pack

NP-1B



Rechargeable Battery Pack BP-90A

Battery Case for BP-90A DC-210



Battery Charger for four BP-L60A or four BP-L60A

BC-L100



Battery Charger for four NP-1B

BC-1WD



Battery Charger for four NP-1B and four BP-90A

BC-410



TV Tuner Unit TU-1041U

Battery Adaptor

Features

■ Attaches a rechargeable Lithium-Ion Battery Pack BP-L60A or BP-L90A to PVM-8045Q/8042Q/5041Q

Retractable handle

Easily detachable upper part of adaptor bracket

Specifications

■ Operating time*

BP-L60A Approx. 100 min. (typical) BP-L90A Approx. 160 min. (typical)

* Actual operating times may vary.

■ Dimensions: 315 (W) x 146 (H) x 100 (D) mm

(12 1/2 x 5 3/4 x 4 inches)

Weight: With attachment frames for 9-inch monitor: 2.35 kg (5 lb 19 oz)

With attachment frames for 6-inch monitor: 2.15 kg (4 lb 28 oz)

■ DC output: DC 12 V, Right angle XLR 4-pin connector (female)

DC fuse: 5 A



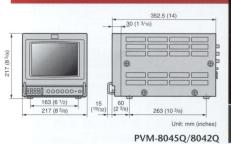
Feature Reference Chart

A LOT LESS COMMENTS OF THE PARTY OF THE PART	PVM-8045Q	PVM-8042Q	PVM-8040	PVM-5041Q
Color system	NTSC/PAL/ SECAM/NTSC4.43	NTSC/PAL/ SECAM/NTSC4.43	NTSC	NTSC/PAL/ SECAM/NTSC4.43
Viewable area (measured diagonally)	8-inch	8-inch	8-inch	5-inch
CRT AG pitch	0.25 mm	0.5 mm	0.5 mm	0.4 mm
Resolution (TV lines)	450	250	250	250
Composite video input	2	2	1	1
Y/C input	1	1	1	N
RGB/Conponent IN (3 BNC)	Y	Y	N	Y
Audio IN	3	3	1	2
Ext. sync IN	Y	Y	N	Y
Tally/Remote	Y	Y	N	Y
DC operation	Y	Y	N	Y
Switchable aspect ratio (4:3/16:9)	Y	Y	N	Y
Underscan	Y	Y	N	Y
H/V delay	Y	Y	N	Y
Blue only	Y	Y	N	Y
Bias/Gain control	Y	Y	N	N
MB-507 Rack mounting bracket	Y	Y	Y	Y
MB-508 Blank panel	N	N	N	Y
MB-509 Blank panel	Y	Y	Y	N
VF-504 Monitor ENG kit	N	N	N	Y
VF-505 Monitor ENG kit	Y	Y	N	N
DC-L10 Battery adaptor	Y	Y	N	Y

Specifications

	8045Q	8042Q	
GENERAL			
Color system	NTTCC/DAL/CCCANA/NTCC		
	NTSC/PAL/SECAM/NTSC443	22 cm (0 in sh) Trinitana taha	
CRT type	22 cm (9-inch) HR Trinitron Tube,	22 cm (9-inch) Trinitron tube,	
	viewable area 19.1 cm (8-inch) measured diagonally,	viewable area 19.7 cm (8-inch) measured diagonally,	
3 loot	70° deflection, AG pitch 0.25 mm	70° deflection, AG pitch 0.5 mm	
Resolution	Composite video: 450 TV lines at center	Composite video: 250 TV lines at center	
requency response	6.0 MHz (-3 dB)		
Aperture correction	-4.0 dB to 6.0 dB (at 3.0 MHz)		
Synchronization	AFC time constant 1.0 ms		
Normal scan	6 % overscan		
Underscan	3 % underscan		
H linearity	Less than 5 % (typical)		
/ linearity	Less than 5 % (typical)		
Convergence	Central: 0.43 mm (typical)		
	Corner: 0.53 mm (typical)		
Raster size stability	H: 1.0 %, V: 1.5 %		
HV regulation	3.0 % (cut off to high light)		
Color temperature	D 65		
Operating temperature	0 to 35° C (32 to 95° F)		
Storage temperature	-10 to 40° C (14° F to 104° F)		
Humidity	0 to 90 % (no condensation)		
Power requirements	AC: 100 to 240 V (UL approved for 120 V operation), 0.3	' to 0.4 A, 50/60 Hz DC: 12 V, 3.7 A	
	DC: 12 V, 3.7 A		
Power consumption	AC: 45 W, DC: 41 W		
INPUT			
VIDEO INPUT			
LINE A/LINE			
Composite video*1	Loop-through BNC		
	1 Vp-p ± 6 dB, sync negative, automatic 75 Ω termination	1*2	
Y/C*1	Loop-through Mini DIN 4-pin		
	Y (luminance):		
	1 Vp-p ± 6 dB, sync negative, automatic 75 Ω terminati	on* ²	
	C (chrominance):		
	NTSC: 0.286 Vp-p ± 6 dB, automatic 75 Ω termination*		
	PAL: 0.3 Vp-p ±6 dB, automatic 75 Ω termination*2		
LINE B			
Composite video	Loop-through BNC		
	1 Vp-p ± 6 dB, sync negative, automatic 75 Ω termination) *2	
RGB/COMPONENT (Y, R-Y, B-Y)	BNC		
	Red/R-Y:		
	Non-composite: 0.7 Vp-p ± 6 dB, sync positive, 75 Ω		
	Sync on Green/Green/Y:		
	Composite: 1.0 Vp-p ±6 dB, sync negative		
	Non-composite: 0.7 Vp-p ± 6 dB, sync positive, 75 Ω		
	Blue/B-Y:		
AUDIO INPUT	Non-composite: 0.7 Vp-p ± 6 dB, sync positive, 75 Ω		
	Loon through Phone 5 dP- bish toronders		
LINE A/LINE	Loop-through Phono, -5 dBu, high impedance		
LINE B	Loop-through Phono, -5 dBu, high impedance		
	Phono, -5 dBu, high impedance		
External sync	Loop-through BNC		
	4.0 Vp-p \pm 6 dB, sync negative, automatic 75 Ω terminati	on*²	
DC	XLR 4-pin		
Remote	Mini DIN 8-pin (with Tally)		
OUTPUT			
	0.5 W monaural		
Speaker out	0.5 W, monaural		
PHYSICAL CHARACTERI	ISTICS		
Weight	Approx. 8.2 kg (18 lb) without batteries		
Dimensions	Approx. 217 (W) x 217 (H) x 352.5 (D) mm (8 5/8 x 8 5/	8 v 14 inches)	
		on it menes)	
SUPPLIED ACCESSORIES			
	AC power cord		
	Mini DIN 8-pin connector w/cable (cable length: 350 mr	n (13 7/8 inches))	
	Tally number plated (12 pcs. (No.1 to 5, A, B, C, P, R, wh		
	Operation instructions		
	operation instructions		
REGULATION COMPLIA	NCE		
REGULATION COMPLIA			



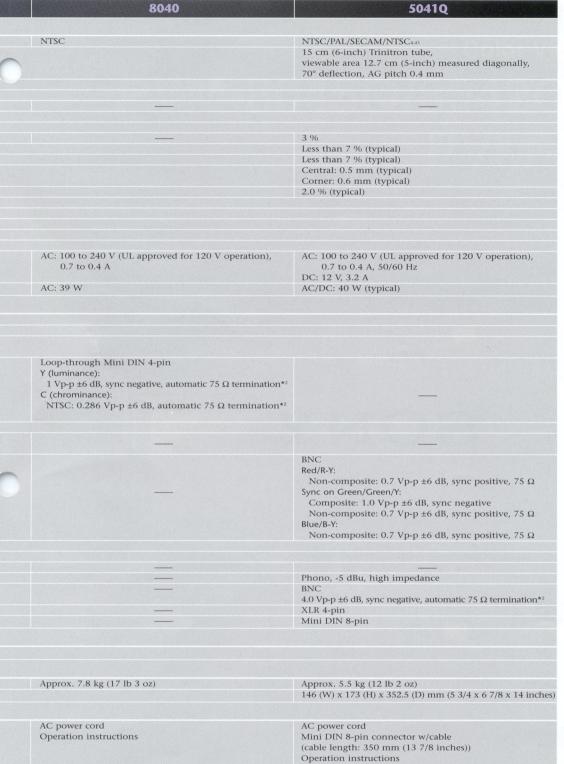


VYCO VICTO ALGO VICTO ALGO OF THE STATE OF T





PVM-8040



0 dBu = 0.775 V rms

- *1 The Y/C input has priority over the Composite input.
- *2 75 Ω termination is automatically set to OFF when a connection is made to the OUT connector.

